

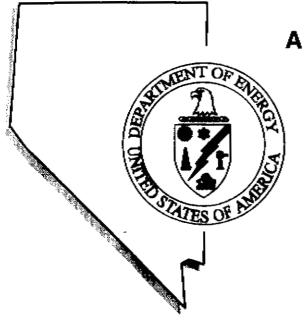
A Class III Cultural Resources Survey of the U.S. Department of Energy Rulison Gas Stimulation Test Site Garfield County, Colorado

December 1993

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## **Environmental Restoration**





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December 1993



U.S. Department of Energy Nevada Operations Office

# A Class III Cultural Resources Survey of the U.S. Department of Energy Rulison Gas Stimulation Test Site Garfield County, Colorado

Prepared for: DOE Nevada Operations Office Las Vegas, Nevada 89193-8518

Prepared by: IT Corporation 4330 S. Valley View Blvd. Las Vegas, Nevada 89103

Work Performed under Contract No.: DE-AC08-92NV10972

December 1993

# A Class III Cultural Resources Survey of the U.S. Department of Energy Rulison Gas Stimulation Test Site Garfield County, Colorado

Prepared Under Contract for: DOE Nevada Operations Office Las Vegas, Nevada 89193-8518

Author/Principal Investigator: Lucy Hackett Bambrey IT Corporation

Colorado Permit No. 93-48

Bureau of Land Management Cultural Use Permit No. C54964

Work Performed under Contract No.: DE-AC08-92NV10972

December 1993

#### Abstract\_

This report documents the findings of a cultural resources survey conducted for the U.S. Department of Energy (DOE) by IT Corporation (IT). The purpose of the project was to comply with Section 106 of the National Historic Preservation Act, as implemented by the Advisory Council on Historic Preservation Regulations, Title 36 C.F.R. §800, prior to performing site characterization or possible remediation activities at the Rulison Gas Stimulation Test Site.

A literature search pertaining to the project area and pedestrian inventory were conducted on a total of 40 acres located 6 miles southeast of Parachute, Garfield County, Colorado. The primary objective of the inventory was to locate and record any cultural resources in the area of potential remediation impact. The secondary purpose of the investigations was to incorporate the information gathered on any cultural resources identified during the inventory, using the context of the Colorado Resource Protection Planning Process documents.

One historic isolated find (IF) consisting of a cast iron stove was recorded. One historic monument—the Rulison Gas Stimulation Test Site surface ground zero (SGZ)—was recorded. It is recommended that the Rulison Site SGZ monument (5GF1656) be considered eligible for nomination to the National Register of Historic Places along with three other similar sites in Colorado and New Mexico.

It is recommended that the project proceed. However, should any cultural materials be uncovered during construction, a qualified archaeologist should be called in to assess the site and the U.S. Bureau of Land Management (BLM), Glenwood Springs Resource Area archaeologist, and the Office of Archaeology and Historic Preservation should be notified.

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### List of Abbreviations and Acronyms\_

AEC Atomic Energy Commission

amsi above mean sea level

BLM U.S. Bureau of Land Management

C.F.R. Code of Federal Regulations

cm centimeters

DOE U.S. Department of Energy

DOE/NV DOE Nevada Operations Office

ft feet

IF isolated find

IT IT Corporation

m meters

NEPA National Environmental Policy Act

NRHP National Register of Historic Places

OAHP Colorado Office of Archaeology and Historic Preservation

RP3 Resource Protection Planning Process

SGZ Surface Ground Zero

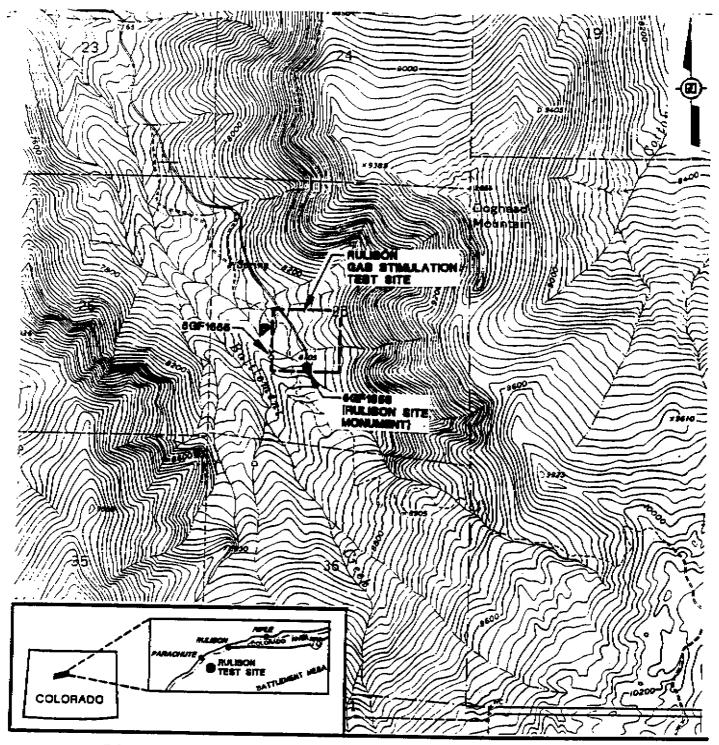
#### 1.0 Introduction

The following report documents the findings of a Class III cultural resources survey conducted by IT Corporation (IT) for the DOE Nevada Operations Office (DOE/NV) as part of compliance with the National Environmental Policy Act (NEPA) (Contract No. DE-AC08-92NV10972). The purpose of the investigations was to comply with federal mandates pertaining to the historic preservation of cultural resources, including Section 106 of the National Historic Preservation Act, as implemented by the Advisory Council on Historic Preservation, Title 36 Code of Federal Regulations (C.F.R.) §800; the Archaeological and Historic Preservation Act, as implemented by the Advisory Council on Historic Preservation, Title 36 C.F.R. §800; Executive Order 11593; and the American Indian Religious Freedom Act. The DOE regulations contained in Title 10 C.F.R. §1021 also require compliance with historic preservation mandates. The project involved both private and federal lands. The federal lands are managed by the U.S. Bureau of Land Management (BLM); therefore, the project was conducted under the auspices of BLM Cultural Use Permit No. C54964 and State of Colorado Archaeological Permit No. 93-48 (expires 2/28/94).

The investigations were conducted in order to evaluate the potential impacts that may occur as a result of performing site characterization or possible remedial activities at the DOE's Rulison Gas Stimulation Test Site in west-central Colorado. A block of 16.2 hectares (40 acres) was inventoried. The land is located approximately 6 miles southeast of the town of Parachute in Garfield County, Township 7 South (T7S), Range 95 West (R95W), Section 25, NE¼, SW¼, 6th Principal Meridian (see Figure 1-1).

The U.S. Department of Energy (DOE) (previously the Atomic Energy Commission [AEC]), as well as other parties, has conducted activities on portions of the 16.2 hectares (40 acres) at the site since the 1960s. Project Rulison involved the underground detonation of a nuclear device in a deep shaft near Battlement Creek in 1969. During the 1960s and 1970s, grading, filling, and other types of ground disturbance were conducted on portions of the 16.2 hectares (40 acres). Presently, the site is used primarily for livestock grazing. Future ground disturbance during remediation could include installation of monitoring wells and removal of soils for environmental restoration purposes.

The primary objective of the investigations was to locate or identify any cultural resources in the area of planned remedial activities and to make recommendations with respect to the



#### **LEGEND**

---- PROJECT BOUNDARY

X ISOLATED FIND

SITE

SCALE 0 2000 4000 FEET

SOURCE: USGS 7.5' RULISON, CO. TOPOGRAPHIC MAP.

#### FIGURE 1-1

LOCATION OF RULISON GAS STIMULATION TEST SITE significance and eligibility for nomination to the National Register of Historic Places (NRHP) of any resources found. The second objective of the project was to incorporate the information gathered on any existing cultural resources within the project area into the data bank for Garfield County. The basis for incorporation was to be the context of the Resource Protection Planning Process (RP3) documents for west-central Colorado.

A site file search was conducted by the Colorado Office of Archaeology and Historic Preservation (OAHP) on December 22, 1992. The field inventory was conducted on July 1, 1993, by Lucy Hackett Bambrey of IT Corporation and Tom Reust, Sheila Powley, and Bill Harding of Mariah Associates, Inc.

#### 2.0 Environment \_\_\_\_

The proposed project area is located at the eastern edge of the Colorado Plateau physiographic province. The province is characterized by relatively high elevations and extensive horizontal sedimentary rock formations dissected to form mesas and canyons (Reed 1984). The Rulison Site is located on the north-facing slope of Battlement Mesa, a prominent topographic feature south of the Colorado River Valley. The east fork of Battlement Creek flows through the southwestern portion of the project area and provides a permanent source of water.

West-central Colorado is generally classified as semiarid, with low precipitation and relative humidity, warm summer temperatures, and abundant sunshine (Marlatt 1973). Winds are generally from the west, but fail to carry much moisture from the Pacific Ocean and the Gulf of Mexico past western and southern mountain barriers. Annual precipitation ranges from 10 inches (in.) at elevations of 5,000 feet (ft) above mean sea level (amsl) to 25 in. at 8,000 ft amsl. Winter snowfall may exceed 100 in. on plateau tops (Marlatt 1973). The length of the growing season at Parachute is 150 days (Brooks et al. 1933).

The evaporative demand on the north slope of Battlement Mesa is fairly low compared to that of the area north of the Colorado River (Marlatt 1973). Moisture has a chance to soak into the volcanic soils; thus, the vegetative community is well developed. This community is able to support a variety of faunal species.

The flora in the area consist primarily of species common to alpine forests: mixed mountain shrub and grasses, aspen (Populus tremuloides), Douglas fir (Pseudotsuga menziesii), mountain mahogany (Cercocarpus montenus), and serviceberry (Amelanchier alnifolia). The plant species are suitable for grazing of cattle and horses. Mammals common to the area are beavers (Castor canadensis), marmots (Marmota flaviventris), elk (Cervus canadensis), mule deer (Odocoileus hemionus), coyote (Canis latrans), and bear (Ursus americanus).

#### 3.0 Existing Data \_\_\_\_\_

An initial literature/file search was conducted at the OAHP, Colorado Historical Society, on December 22, 1992. The Colorado Inventory of Cultural Resources showed one recorded historic site (5GF447) located within Section 25. Additionally, there have been two cultural resources investigations conducted within Section 25. A site file search at the BLM Glenwood Springs Resource Area Office was conducted on June 28, 1993. This search showed that site 5GF447 was not located in Section 25 and that no cultural resources sites have been recorded within the project boundaries. A telephone contact with the BLM Glenwood Springs Resource Area Archaeologist, Patty Walker-Buchanan, on July 14, 1993, verified that Battlement Road, which leads up to the Rulison Test Site, was surveyed as part of the Parachute Exchange Cable Replacement Project in 1991.

The Garfield County Assessor's office in Glenwood Springs, Colorado, was visited in order to determine land ownership records. The County Assessor's office records indicate that the project lands were acquired by Cary Weldon and Melvin Atwood in 1976. Subsurface public access was withdrawn prior to the detonation; the BLM retains jurisdiction over subsurface rights.

The Indian Commission of Colorado and the Ute tribes were consulted to determine whether any sites having religious or cultural importance to Native Americans exist within or near the project boundaries (Appendix A). No such sites are known to exist. Last, contact with a local resident of Battlement Mesa was made to gather any information that amateur archaeologists may have about the project area.

The cultural history of west-central Colorado is assumed to span approximately 10,000 years (Reed 1984). There are five cultural stages currently recognized, as documented in the *West Central Colorado Prehistoric Context* published by the Colorado Historical Society: the

Paleoindian Stage (ca. 10,000 to 5500 B.C.), the Archaic Stage (ca. 5500 B.C. to A.D. 500), the Formative Stage (ca. A.D. 500 to 1200), the Protohistoric/Historic Stage (ca. A.D. 1200 to 1880s), and the historic Euro-American Tradition (A.D. 1770s to present) (Reed 1984). Further information on the cultural history and settlement patterns can be found in Burgess et al. (1980) and Mehls (1982). Currently, no BLM cultural resources overview has been published for the Glenwood Springs Resource Area.

A review of the literature shows that a variety of archaeological site types occurs in west-central Colorado that can be classified into descriptive and/or functional categories (Reed 1984). The most common descriptive site types in the general project area range from open lithic scatters, some with the remains of ground stone and ceramics, to rock shelters, rock art, masonry structures, wickiups, and tree platforms.

Historically, Garfield County was utilized by both Native Americans and Euro-American settlers. A Ute Indian trail is thought to have extended from hunting grounds on top of Battlement Mesa down Battlement Creek, crossing the Colorado River at the present town of Parachute (Hayward 1992). However, there are no known Native American ceremonial or sacred sites within or near the project boundaries (personal communication, Indian Commission of Colorado, 1993).

Permanent white settlement began in the 1880s with the establishment of several ranching towns and the Rio Grande Junction Railway (Mehls 1982). Volcanic soils on Battlement Mesa were suitable for farming (Mehls 1982). Most of the recorded historic sites near the project area relate to the homesteading, ranching, and livestock grazing themes. Oil and gas lease fields are in existence nearby. Generally, resources that are 50 years or older are considered to be of potential archaeological or historical significance.

Livestock ranching, agriculture, retirement homes, oil and gas development, and tourism comprise the present day economic resources of the area. The project land is currently being used for a summer residence, as evidenced by a mobile home structure approximately 90 meters east of the Rulison Test Site surface ground zero (SGZ).

#### 4.0 Project Objectives

The following is a summation of the statement of objectives submitted to the OAHP prior to field work:

The simplicity of this project, based on the acreage (40 acres) and the anticipated low site density, did not seem to merit an extensive set of hypotheses and data requirements. Instead, the intent of the project was to complement or fill any appropriate data gaps listed in the RP3 documents (Reed 1984; Husband 1984; Buckles and Buckles 1984). For instance, if a site with diagnostic Archaic materials was recorded, an attempt would be made to apply the research problems and needed research topics listed in Reed (1984:27-30) to the site. The project objectives and methodology are described in the following paragraphs.

The primary purpose of the investigations was to locate or identify any cultural resources in the area of planned monitoring and remediation impact. (Past inventories have tended to avoid certain geographical areas, such as major valley bottoms, because of land ownership and location of resource development.) Once a site was located, recorded, and evaluated, recommendations for avoiding or lessening potential adverse effects of remedial activities would be made. Preservation of significant cultural resources by avoidance, or mitigation strategies for those properties where avoidance is not feasible, would be among the preferred options for management recommendations.

The secondary purpose of the proposed investigations was to incorporate the information gathered on any existing cultural resources within the project area, using the context of the RP3 documents. The types of information to be collected for archaeological sites were site size, the types and density of artifacts found, the types and density of any features, the cultural/temporal affiliation of artifacts or components, the physical setting, and the estimated depth of cultural deposits based on the soil type. All prehistoric sites or isolated finds were to be defined using the guidelines for isolated find, site, locality, and site typology listed in Reed (1984:6-7). The information collected for historic sites was within the framework of the Colorado Plateau Country Historic Context (Husband 1984). Site type, existing architecture, chronology/ethnicity, land ownership and use, and historic significance were the main information gathered about any properties identified or located.

For the purposes of the field survey, any cultural material judged to be 50 years of age or older was recorded. A prehistoric site was defined as any locus of activity represented by two or more lithic flakes or tools, two or more ground stone artifacts, or any feature (e.g., hearth or stone circle). Historic sites were considered concentrations of refuse or refuse in combination with structural remains. Single items, such as a stone flake or tool or glass fragments from a single glass bottle, were recorded as isolated finds.

A limited number of cultural resources were expected to exist within the project boundaries. There were two reasons for this expectation. First, there have been no sites recorded within a one-mile radius of the project boundaries. Second, the environmental variables are not favorable for a high site density. Much of the project lands are on the narrow valley floor formed by the east fork of Battlement Creek, which transects the project area, or on heavily vegetated slopes above the creek. There is a greater potential for prehistoric open campsites to be located on top of the mesa or near springs along the valley floor.

It was expected that any cultural resources located would be either prehistoric open lithic campsites or isolated finds or historic ranching activity debris. This assumption was based on the types of sites reviewed in the initial literature search and the most common site types for the area as listed in Reed (1984) and Husband (1984).

#### 5.0 Methodology \_\_\_\_\_

The field survey was accomplished by a four-person crew. The crew members spaced themselves at intervals of no greater than 20 meters and moved across the project area in a north-south direction. At the project boundary, the crew reversed direction. Distance between surveyors was measured by pacing, and direction was maintained by the use of compasses. When a culturally modified object (e.g., lithics or ceramics) was located, the crew members marked their current locations and proceeded to the find locus to search for additional cultural materials.

The survey was a visual evaluation only. No collection of artifacts was conducted. Artifacts that are on the ground surface were recorded, sketched and/or photographed, and returned to the surface. No artifacts were extracted from the subsurface soil (see explanation and rationale in Section 6.0, Special Considerations). No subsurface shovel test pits were excavated (see explanation and rationale in Section 6.0, Special Considerations).

The site forms currently being used by the OAHP were used for recording sites. The site form was to be supplemented with a scale map of the site, if necessary. Upon determination that a find locus met the criterion for a site, it was assigned a temporary field number, and the crew proceeded to locate and flag all cultural material.

All sites and isolated finds were plotted on the Rulison USGS 7.5' topographic maps and on appropriate project area maps. Mapping was supplemented with photographs. At least two black and white 35-mm photographs were taken of each site. Photographic records were kept to facilitate later identification of subjects.

A total of 16.2 hectares (40 contiguous acres) was surveyed. The vegetation cover at the time of the survey ranged from 25 to 100 percent.

#### 6.0 Special Considerations \_\_\_\_\_

Because of the nature of the DOE operations that have been conducted in the past or are currently being conducted at the site, certain items of special consideration were brought to the attention of the OAHP and the BLM.

Past activities at the site have involved the use of radioactive materials and hazardous chemicals. There is currently no evidence that <u>surface</u> activities pose a threat to human health or field investigators. However, until it can be verified through site investigations that subsurface activities pose no threat to personnel, Occupational Safety and Health Act regulations in Title 29 C.F.R. §1910.120 were followed. This meant that no disturbance of the ground surface was conducted. No artifacts were collected from the surface; no artifacts were extracted from the soil; no subsurface test pits were excavated.

It was anticipated that enough data could be collected from surface examinations only to enable the DOE to make initial recommendations for the significance and/or potential eligibility of the sites for inclusion in the NRHP under § 106 of the National Historic Preservation Act. Consequently, surface cultural manifestations were recorded with as much detail as possible.

#### 7.0 Results of Field Work

The number and density of prehistoric cultural material located during the field survey was as expected. No prehistoric isolated finds or sites were recorded. The types of historic items observed were consistent with the expected results. Site forms are attached as Appendix B.

#### 7.1 Isolated Find 5GF1655 (IF1)

Isolated find 5GF1655 consists of a cast-iron rectangular box stove. The stove is decorated with raised circular and scroll patterns. The legs, the front door, and one of the top lids is missing. No manufacturer's name or date was observed. The stove could be of the type manufactured during the first half of this century. Carvings of Anglo names in nearby aspen trees date to the 1950s, but it is unknown whether the stove is associated with that time period. The stove is a common type and is not considered to be significant or eligible for inclusion in the NRHP.

#### 7.2 Cultural Resources Site 5GF1656 (ITC-1)

Site 5GF1656 is the Rulison Gas Stimulation Test Site SGZ monument. The Rulison Site was part of the AEC's experimental Plowshare Program, which sought to develop peaceful uses of nuclear devices in the 1960s and 1970s.

The site consists of a concrete slab measuring approximately 3 meters (m) north-south by 5 m east-west. Atop the concrete slab is a concrete pedestal measuring roughly 40 centimeters (cm) (16 in.) long by 30 cm (12 in.) deep by 20 cm (8 in.) high. A bronze plaque is set into the pedestal (see Figures 7-1 and 7-2). The title of the monument reads:

"Project Rulison Nuclear Explosive Emplacement Well (R-E)"

The monument describes the Rulison Site as the site of the second nuclear gas stimulation experiment in the U.S., where one 43-kiloton nuclear explosive was detonated in a well 8,426 ft below the surface, on September 10, 1969. The monument is surrounded by a graded area measuring anywhere between 30 to 60 m in radius.

There is evidence that the monument has been vandalized. The concrete pedestal has been severely chipped in its north and east edges. The bronze plaque has been scratched and dented. In addition, two small metal plaques have been affixed or glued to the back (east)

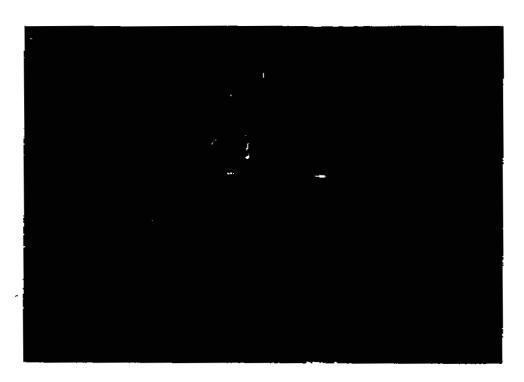


FIGURE 7-1
VIEW OF RULISON GAS STIMULATION TEST SITE SURFACE GROUND ZERO

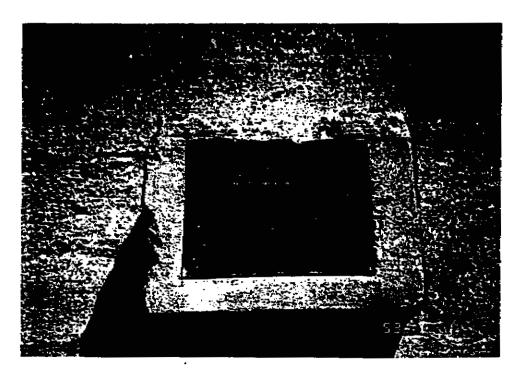


FIGURE 7-2
CLOSE-UP VIEW OF RULISON GAS STIMULATION TEST SITE SURFACE GROUND ZERO

side of the pedestal. One small weathered plaque remains in place. The text on this plaque enumerates the radioactive isotopes utilized and created by the nuclear device and lists the hazards to human health and the environment. DOE officials who visited the site in June 1993 had no knowledge of the DOE affixing these types of plaques to the monument. (Similar plaques appear on other Plowshare Program monuments in Colorado and New Mexico.)

Under the Plowshare Program, the economic feasibility of stimulating the flow of natural gas by fracturing rock formations with underground nuclear explosions was explored. A series of joint government-industry experiments were conducted in New Mexico and Colorado:

- Project GNOME (prototype), near Carlsbad, New Mexico; detonated December 10, 1961
- Project GASBUGGY, near Dulce, New Mexico; detonated December 10, 1967
- Project RULISON, near Rulison, Colorado; detonated September 10, 1969
- Project RIO BLANCO, near Rio Blanco, Colorado; detonated May 17, 1973.

The program was successful in that the blasts stimulated the flow of natural gas. However, radioactivity remaining in the gas precluded its use in the industrial market.

The use of nuclear devices for peaceful purposes is an important aspect to the Cold War Era of nuclear proliferation. The Plowshare Program is an integral part of the recent history of the United States and the globe, in that the development of nuclear power has swiftly altered the course of human history within the past half century. While the Plowshare Program sites are less than 50 years of age, the thematic importance of the Rulison Test Site should be considered exceptional and significant.

It is recommended that the site 5GF1656 be considered significant and potentially eligible for nomination for inclusion in the NRHP. It is suggested that the site be nominated to the NRHP along with the other three Plowshare Program sites as a group within the thematic context of events of exceptional importance that have contributed to the broad patterns of human history.

#### 8.0 Conclusions and Recommendations

Based on the Class III cultural resources survey, it is recommended that clearance be given for future monitoring and restoration activities. The cast iron stove (IF) 5GF1655 does not merit further consideration. Site 5GF1656, the Rulison Gas Stimulation Test Site SGZ monument, is considered to be potentially eligible for the NRHP. It is recommended that the Rulison Gas Stimulation Test Site be nominated to the NRHP along with the other three Plowshare Program sites in Colorado and New Mexico. While it is highly unlikely that the SGZ shaft and monument will be disturbed during remediation and restoration, avoidance of the monument and institution of a buffer zone of a 100-foot (30-m) radius is recommended.

Should any prehistoric or historic artifacts or remains be uncovered during remediation activities, work should cease, and a qualified archaeologist should be called in to assess the items. The BLM Glenwood Springs Resource Area archaeologist and the OAHP should be contacted.

#### 9.0 References

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## Appendix A

Correspondence with Indian Commission of Colorado and Ute Tribes



#### Department of Energy

Nevada Operations Office P.O. Box 98518 Las Vegas, NV 89193-8518

Leonard Burch, Tribal Chairman Southern Ute Tribe P.O. Box 737 Ignacio, Colorado 81137

#### REQUEST FOR COMMENTS ON CULTURAL RESOURCES PROJECT

The U.S. Department of Energy (DOE) continues to monitor the two Project Plowshare sites in Colorado. In the future, DOE will be conducting characterization studies to determine what remediation, if any, may be required at these sites. In June and July 1993, in preparation for these activities which may involve drilling, geophysical surveys, and the collection of environmental samples, DOE commissioned cultural resources surveys on 360 acres at the Rio Blanco Gas Stimulation Test Site, Rio Blanco County, Colorado, and on 40 acres at the Rulison Gas Stimulation Test Site, Garfield County, Colorado, near the homelands of the Southern Ute Tribe. The areas are located on U.S. Bureau of Land Management (BLM) and private lands. The Rio Blanco site is located at T.3S., R.98W., SE%SE% Sec. 10, S%SW% Sec. 11, NW% Sec. 14, E%NE% Sec. 15 (Rock School quad map). The Rulison site is located at T.7S., R.95W., NE%SW% Sec. 25.

The surveys were conducted by IT Corporation and Mariah Associates, Inc. (under BLM permits numbered C54964 and C44151). Previous surveys had identified no prehistoric sites at Rio Blanco, and no new sites were located within the 360 acre project area. Two isolated occurrences (IOs) were found and consisted of a bifacial knife and a chert flake. The Rio Blanco site was previously recorded as an historic site. Preliminary recommendations are that no further investigations are required at the two IOs and that the gas stimulation site itself be formally evaluated for nomination to the National Register of Historic Places (NRHP).

Surveys at the Rulison site located no prehistoric sites. Two historic sites were found consisting of a stove box and the previously recorded event site. Preliminary recommendations are that the stove box merits no further consideration and the Rulison site be nominated to the NRHP. No materials were removed from either survey site.

DOE requests the comments of the Southern Utes regarding the significance to the people of the project areas surveyed. If there are any potential sites of historic, religious, or ceremonial significance that might be adversely affected by future alteration of the present ground surface, please contact me by November 29, 1993, so that this information can be included in our report.

If you have any questions, please contact Frank R. Maxwell, of my staff, at (702) 295-1050. Thank you for your consideration of this request.

ERD:FRM

CC:

Indian Commission of Colorado Michael Selle, BLM, Meeker, CO Patty Walker-Buchanan, BLM, Glenwood Springs, CO L. H. Bambrey, IT, Denver, CO M. L. Brown, IT, Las Vegas, NV Stephen A. Mellington, Acting Director Environmental Restoration Division



#### Department of Energy

Nevada Operations Office P.O. Box 98518 Las Vegas, NV 89193-8518

Clifford Duncan, Tribal Chairman Northern Ute Tribe P.O. Box 241 Fort Duschesne, Utah 84026

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DOE requests the comments of the Northern Utes regarding the significance to the people of the project areas surveyed. If there are any potential sites of historic, religious, or ceremonial significance that might be adversely affected by future alteration of the present ground surface, please contact me by November 29, 1993, so that this information can be included in our report.

If you have any questions, please contact Frank R. Maxwell, of my staff, at (702) 295-1050. Thank you for your consideration of this request.

Stephen A. Mellington, Acting Director Environmental Restoration Division

ERD:FRM

CC:

Indian Commission of Colorado Michael Selle, BLM, Meeker, CO Patty Walker-Buchanan, BLM, Glenwood Springs, CO L. H. Bambrey, IT, Denver, CO M. L. Brown, IT, Las Vegas, NV



#### Department of Energy

Nevada Operations Office P.O. Box 98518 Las Vegas, NV 89193-8518

Judy Knight-Frank, Tribal Chairperson Ute Mountain Ute Tribe Towacc, Colorado 81334

#### REQUEST FOR COMMENTS ON CULTURAL RESOURCES PROJECT

The U.S. Department of Energy (DOE) continues to monitor the two Project Plowshare sites in Colorado. In the future, DOE will be conducting characterization studies to determine what remediation, if any, may be required at these sites. In June and July 1993, in preparation for these activities which may involve drilling, geophysical surveys, and the collection of environmental samples, DOE commissioned cultural resources surveys on 360 acres at the Rio Blanco Gas Stimulation Test Site, Rio Blanco County, Colorado, and on 40 acres at the Rulison Gas Stimulation Test Site, Garfield County, Colorado, near the homelands of the Ute Mountain Ute Tribe. The areas are located on U.S. Bureau of Land Management (BLM) and private lands. The Rio Blanco site is located at T.3S., R.98W., SEYSEY Sec. 10, SYSWY Sec. 11, NWY Sec. 14, EYNEY Sec. 15 (Rock School quad map). The Rulison site is located at T.7S., R.95W., NEYSWY Sec. 25.

The surveys were conducted by IT Corporation and Mariah Associates, Inc. (under BLM permits numbered C54964 and C44151). Previous surveys had identified no prehistoric sites at Rio Blanco, and no new sites were located within the 360 acre project area. Two isolated occurrences (IOs) were found and consisted of a bifacial knife and a chert flake. The Rio Blanco site was previously recorded as an historic site. Preliminary recommendations are that no further investigations are required at the two IOs and that the gas stimulation site itself be formally evaluated for nomination to the National Register of Historic Places (NRHP).

Surveys at the Rulison site located no prehistoric sites. Two historic sites were found consisting of a stove box and the previously recorded event site. Preliminary recommendations are that the stove box merits no further consideration and the Rulison site be nominated to the NRHP. No materials were removed from either survey site.

DOE requests the comments of the Ute Mountain Utes regarding the significance to the people of the project areas surveyed. If there are any potential sites of historic, religious, or ceremonial significance that might be adversely affected by future alteration of the present ground surface, please contact me by November 29, 1993, so that this information can be included in our report.

If you have any questions, please contact Frank R. Maxwell, of my staff, at (702) 295-1050. Thank you for your consideration of this request.

ERD;FRM

CC:

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Indian Commission of Colorado Michael Selle, BLM, Meeker, CO Patty Walker-Buchanan, BLM, Glenwood Springs, CO L. H. Bambrey, IT, Denver, CO M. L. Brown, IT, Las Vegas, NV Stephen A. Mellington, Acting Director Environmental Restoration Division

## Appendix B

Colorado Office of Archaeology and Historic Preservation Site Forms

#### COLORADO CULTURAL RESOURCE MANAGEMENT

#### ISOLATED FIND RECORD

1)Resource No.: <u>SGF1655</u> 2)Temp.No.: <u>IFI</u> 3)County <u>Garfield</u>
I. LOCATION
4) Legal Location NW 1/4, SW 1/4, NE 1/4, SW 1/4, Sec. 25 T 78 R 95W PM 6th
5)USGS Quad: Name Rulison Size 7.5 Date 1960 (rev. 1987)
6)UTM: Zone 13 , 2 4 6 0 0 0 mE, 4 3 6 5 8 0 0 mN. Attach copy of
portion of USGS Quad.
II. ARCRATOLOGICAL DATA: 7.Artifacts:
Rectangular box-style cast iron stove; raised scroll and circular patterns; no trademark visible; end door, legs, and one of two lids are missing.
8) Inferred function/description:
heating,
9)Cultural Affiliation Euroamerican Time Period 1900-1950
10)IF DimensionsX
III. ENVIRONMENTAL DATA: 11)Elevation 8040 ft. 2451 m. 12)Soil light brown sand/grayel
13)Topography valley 14)Slope: Site 4° Surrounding 10-20° east fork of
east fork of 15)Nearest water: name/naturesttlement Creeklev.8044 list.20m direction east
Nearest permanent water sameelevdistdirection
16)Vegetation on site mountain shrubs/grask@Surrounding veg. aspen, fir. pine
Additional Comments:
IV. ADDITIONAL INFORMATION: (narrative, drawings, sketch map)
see photo
V. REFERENCE DATA:  18)Collection: yesno X describe
19)Repository:20)Landowner_Cary_Weldon/Melvin_Atwood
Cultural Resources Survey of the 21)Report Title Control Resources Survey of the Stimulation Cas Stimulation Control Resources L. H. Bambrey
23)Affiliation Test Site, Garfield County, CO 24)Date 7/1/93

Colorado Historical Society, Office of Archaeology & Historic Preservation, 1300 Broadway, Denver, CO 80203 (303/866-3395).

#### Colorado Cultural Resource Survey Management Data Form (page 1 of 5)

Complete this form for each resource in addition to other appropriate forms—see Manual for information

	Attachments (check as many as apply) Prehistoric Archaeological Component Historical Archaeological Component Historical Architectural Record/ Building Form Sketch/Instrument Map (required) U.S.G.S. Map Photocopy (required) Photograph(s) Other, specify: Vandalism Record  4. Official determination (OAHP use only)  Determined Eligible Nominated Listed Neminated Listed Need Data Contributing to NR Dist. Not Contributing to NR Dist.
I.	IDENTIFICATION
5	Resource Name: Project Rulison Nuclear Explosive Emplacement Well (R-E)
6	. Project Name/Number: Cultural Resources Survey of the Rulison Gas Stimulation Test Site
7.	Government Involvement: Local State Federal_X_ # 301935
_	Agency: BLM - Glenwood Springs Resource Area (subsurface)
8.	Site Categories: Check as many as apply
	Prehistoric: archaeological site paleontological site
	in an existing National Register District? yes no name
	In an existing National Register District? yes no name  Historic: archaeology site_X building(s) structure(s)_X object(s)
	· —
9.	Historic: archaeology site X building(s) structure(s) X object(s)
	Historic: archaeology site X building(s) structure(s) X object(s) in an existing National Register District? yes no X name
	Historic: archaeology site X building(s) structure(s) X object(s) in an existing National Register District? yes no X name  Owner/Owner's Address: Cary Weldon/Melvin Atwood, Garfield County (surface)
10.	Historic: archaeology site X building(s) structure(s) X object(s) in an existing National Register District? yes no X name  Owner/Owner's Address: Cary Weldon/Melvin Atwood, Garfield County (surface)  Boundary Description and Justification: Poured concrete slab measuring ca. 3m x 5m
10. 11.	Historic: archaeology site X building(s) structure(s) X object(s) in an existing National Register District? yes no X name  Owner/Owner's Address: Cary Weldon/Melvin Atwood, Garfield County (surface)  Boundary Description and Justification: Poured concrete slab measuring ca. 3m x 5m covers well shaft; concrete monument is on top of slab.  Site Dimensions: 3 N-S m 5 E-W m Area: 15 m² (+4047) .004 acres Area was calculated as: Length x Width X OR (length X width) X .785 rectangle/square ellipse
10. 11.	Historic: archaeology site X building(s) structure(s) X object(s) in an existing National Register District? yes no X name  Owner/Owner's Address: Cary Weldon/Melvin Atwood, Garfield County (surface)  Boundary Description and Justification: Poured concrete slab measuring ca. 3m x 5m covers well shaft; concrete monument is on top of slab.  Site Dimensions: 3 N-S m 5 E-W m Area: 15 m² (+4047) .004 acres  Area was calculated as: Length x Width X OR (length X width) X .785 rectangle/square ellipse
10. 11.	Historic: archaeology site_X_ building(s) structure(s)_X_ object(s) in an existing National Register District? yes no_X_ name  Owner/Owner's Address:Cary Weldon/Melvin Atwood, Garfield County (surface)_  Boundary Description and Justification: Poured concrete slab measuring ca. 3m x 5m covers well shaft; concrete monument is on top of slab.  Site Dimensions:3 N-Sm5 E-Wm Area: 15m^2 (+4047)004_ acres  Area was calculated as: Length x WidthXOR (length X width) X .785 rectangle/squareellipse  Location  PM6thTownship_7S Range_95WSW1/4ofSE_1/4ofNE_1/4ofSW_1/4_Section_25
10. 11.	Historic: archaeology site X building(s) structure(s) X object(s) in an existing National Register District? yes no X name  Owner/Owner's Address: Cary Weldon/Melvin Atwood, Garfield County (surface)  Boundary Description and Justification: Poured concrete slab measuring ca. 3m x 5m covers well shaft; concrete monument is on top of slab.  Site Dimensions: 3 N-S m 5 E-W m Area: 15 m² (+4047) .004 acres  Area was calculated as: Length x Width X OR (length X width) X .785 rectangle/square ellipse
10. 11.	Historic: archaeology site_X building(s) structure(s)_X object(s) in an existing National Register District? yes no_X name  Owner/Owner's Address:Cary Weldon/Melvin Atwood, Garfield County (surface)  Boundary Description and Justification: Poured concrete slab measuring ca. 3m x 5m covers well shaft; concrete monument is on top of slab.  Site Dimensions: 3 N-S _m 5 E-W m Area: 15 m^2 (+4047)004acres Area was calculated as: Length x Width X OR (length X width) X 785 rectangle/square ellipse  LOGATION  Legal Location  PM 6thTownship Range 1/4of 1/4of 1/4of 1/4 Section 25  PM Township Range 1/4of 1/4of 1/4of 1/4 Section 25

State	Site	#_	5GF1656	
			ITC-1	

## Management Data Form (page 2 of 5)

6. UTM Reference:		
A. 1 3; 2 4 6 2 0 0	nE 4 3 6 5 7 0 0 0 0 0 0 0 0	
B;		
C;		
D i		
7. Address: NEt, SNt		k Addition
8. Location/Access: From town of	·	
	avel .6 mile; turn left on Un	
	urn right; travel 1.7 miles; g	
.2 mile to monument.		
Topographic Feature(s)  X mountain hill	ledge terrace/bench	playa talus slope
tableland/mesa	canyon	alluvial fan
ridge saddle/pass	<u>X</u> valley besin	plain dume
alcove/rockshelter	floodplain	
cliff	cutbank	
X slope	arroyo/gully	<del></del>
imately 3 miles below the t		
. Site Elevation:feet	-(x .3048) 2470 meters 22. A	Aspect: 300 (NW)
. Degree of slope on site: $\frac{2}{2}$	°-4° 24. Soil De	pth: unknown co
.Soil description (character a	and color):light_brown/gray	gravel
.Depositional environment:		
aeolian _X alluvial	residual	<u>X</u> colluvial moraine
other, specify;	none	MOTATHE
. Nearest water: name/nature:	east_fork_of_Battlement_Cree	k - permanent
distance: _50 m _ 165_	_ <del></del>	
	se: same distar	nce: m· ft.
	edominant species):mountain	
	THE THROUGH THE PROPERTY OF TH	<u> </u>
<del></del>		
<del></del>		
.Vegetation associations/comm	mittee currounding site: asper	n, Douglas fir, Englema <u>nr</u>

	te Site # porary #ITC-1
	Hanagement Data Form (page 3 of 5)
I⊽.	National Register Eligibility Assessment
31.	Colorado Historical Society context (RP3) theme(s): Federal Activity
	Specify: Post-1950/Cold War Fra? Engineering Context - Natural Gas/Nuclear Power
32.	Applicable National Register Criteria:  Does not meet any of the below National Register criteria
	A. associated with events that have made a significant contribution to the broad pattern of our history
	B. associated with the lives of persons significant in our past
	C. embodies the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction
	D. has yielded, or may be likely to yield, information important in history or prehistory
	Qualifies under exceptions A through G (see Hamual)
	Level of Significance: National v State v Local v
33.	Condition a. Architectural/Structural  Excellent Good X Fair Deteriorated Ruins  b. Archaeological/Paleontological Undisturbed Light disturbance Heavy disturbance Heavy disturbance Total disturbance
34.	Describe condition: Concrete pedestal and plaque have been chipped, scratched, and
	dented.
35.	Is site vandalized? yes X no describe: Concrete around bronze plaque is
	chipped; metal plaque(s) on back of concrete monument has been added with adhesive.
36.	Eligibility Recommendation:
	Eligible X Not Eligible Need Data
	Statement of Significance/N.R.H.P. Justification: Site is one of four sites in
	Colorado and New Mexico in the Plowshare Program, a program to develop peaceful use
	of nuclear devices. The sites should be considered eligible for NRHP in thematic
	context of events of exceptional importance that have contributed to the broad
37.	patterns of human history, If in an existing National Register District, is the site Contributing Non-Contributing

38. Is there National Register District Potential? yes no X discuss: The

Plowshare Program sites are not contiguous.

,

State	Site	#_	5GF1	656	
Tempor	ary	<b>/</b>	ITC	-1	

## Management Data Form (page 4 of 5)

	AGEMENT AND ADMINISTRATIVE DATA
39 .	Threats to Resource: water erosion wind erosion animal activity neglect X_ vandalism_X_ recreation construction other (specify):
40.	Existing Protection: nonemarked fenced_X patrolled access controlled
	other (specify): within confines of private property
41.	Local landmark designation: 42. Easement:
43.	Management Recommendations: Continue to fence as private property.
۷I.	DOCUMENTATION
44.	Previous Actions Accomplished at the site:
	a. Excavations: test partial complete Date(s):
	b. Stabilization: Date(s):
	c. HABS/HAER Documentation: Date(s) & Numbers:
	d. Other
45.	Known collections/reports/interviews and other references (list):
46.	Primary Location of Additional Data:
47.	State or Federal Permit Number: CO 93-48 Collection Authorized: yes X no
	Artifact Collection: yes no_y
	Method: Diagnostics grab sample random sample transect
	Other (specify):
	Artifact Repository
48.	Photograph Nos.: Roll 2, Nos. 8-9 negatives filed attnglewood, CO
	Report Title: Cultural Resources Survey of the U.S. DOE Rulison Gas Stimulation Test
	Recorder(s): L. H. Bambrey Date(s): 7/1/93
51	Affiliation: IT Corneration, Englewood CO Phone Number: (303) 793-5200

Management Data Form - CONCRETE SWARD IM ONIUMENT Site Sketch Map (page 5 of 5) True \_\_\_\_ Mag.  $\frac{X}{2.5^{\circ}}$  declination \_/2.5° 1 = 10 m (approx.) Scale LIVEL GRADEO mobiled HINEL AP SA CONCENTE PEDESTAL
UITENTE PLADUE RULISON SITE SURFACE GROUND ZELO (CONCRETE S AS) SARBED WIRE FINE

Manneriel

1 11. BARBORN

Datasiel 7-1.102

#### Colorado Cultural Resource Survey Ristorical Archaeology Component Form (page 1 of 4)

Use this form in conjunction with the Management Data Form. This form should be completed for each historical site with archaeological potential.

completed for each distorical site with	aronadoradares becomes
1.State Site Number 5GF1656	
Does this form pertain to the site in ge a particular feature/structure (please n	eneral? yes X no OR , note feature/structure number)
3. Site/Peature Type: Concrete monumer	nt with plaque
•	e site consists of a poured concrete alab
measuring ca. 3 m N-S by 5 m E-W. Ator	the concrete slab is a concrete pedestal
measuring roughly 40 cm long by 30 cm w	wide by 20 cm high. A bronze plaque is se
in the pedestal. The title of the monu	ment reads: "project Rulison Nuclear
Explosive Emplacement Well (R-E)." The	ne monument describes the site of the
second nuclear gas stimulation experime	ent detonation, September 10, 1969. The
monument is surrounded by a graded area	measuring anywhere between 30 to 60 m
in radius.	
Plowshare Program (development of pea	
6. Component Function(s)	
Original Use Well shaft for empla	
Present Use backfilled, capped, a	bandoned, monitored
Comments	
7. Ethnic affiliation of occupants E	uroamerican .
justification .Information on a	monument.
·	
	· · · · · · · · · · · · · · · · · · ·

thickness, shape) bottls  window  other	
A. Glass (function, color, manufacturing technique, makers marks, inscriptions, thickness, shape) bottle  window  other  B. Cersaics (function, surface treatment/glase, shape, trademarks, color, decorations, earthenware	lfact
window  other  B. Ceramics (function, surface treatment/glaze, shape, trademarks, color, decorations, earthenware	
other  B. Ceramics (function, surface treatment/glaze, shape, trademarks, color, decorations, sarthenware	
other  B. Ceramics (function, surface treatment/glaze, shape, trademarks, color, decorations, sarthenware	
B. Cerwaics (function, surface treatment/glaze, shape, trademarks, color, decorations, sarthenware	
B. Ceramica (function, surface treatment/glaze, shape, trademarks, color, decorations, sarthenware	
stonewars	
porcelain	
other	
C. Mails (size, material type and manufacture techniques if not wire or cut) cut nails	
wire nails	
other	

*:*•

State Site # 5GF1656 Ristorical Archaeology Component Form Temporary # ITC-1 (page 3 of 4) Description Quantity D. Cans (function, size, material type, type of opening, seams, inscriptions, hole-in-top/hole-in-cap sanitary other: E. Cartridge Cases (size, inscriptions, material type) F. Construction Material - logs, milled lumber, brick, adobe, cement/concrete, stone/rock,corrugated metal,asphalt/tar,pipe,etc. Poured concrete slab; bronze (?) metal plaque on poured concrete pedestal. G. Misc. Other Items - utensils, stove parts, wire, nuts, bolts, rivets, screws, buckets, barrels, animals shoes, wagon or car parts, machinery, leather, fabric, clothing, bone, furniture, buttons, coins, etc.

<u>:</u> -

. Artifact D	ensity: Heavy	Medium	Light	Describe	·
			<del></del>		
	l information we of four si	tes associated	with the Plo	share Program	of the
		r sites include			
Gasbuggy a	and Gnome-Coac	ch Sites in New	Mexico.		<del></del>
	<del></del>				<del></del>
			. <u> </u>		
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P Ref.	Descri	ures	Coestruct	ion Naterial	Dimension
P Ref.	Descri	ures	Coestruct	ion Naterial	Dimension
P Ref.	Descri	ures	Coestruct	ion Naterial	Dimension
Non-archi	Descri	ures	Coestruct	ion Naterial	Dimension

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*:* -

Colorado Historical Society, Office of Archaeology & Historic Preservation, 1300 Broadway, Denver, CO 80203, (303) 866-3395

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#### COLORADO CULTURAL RESOURCE MANAGEMENT

#### VANDALISM RECORD

USE AS A SUPPLEMENT TO (AND NOT IN LIEU OF) VANDALISM TO PREHISTORIC OR HISTORIC CULTURA	
1. Resource No. 5GF1656 . 2. Owner_	Cary Weldon/Melvin Atwood (surfáce
3. Type of Vandalism (check one or more cat	egories):
Surface collectedDamage to archaeological depositsOther (explain)	X_Damage to standing structuresDamage to rock art, inscriptions
4. Description (key separate locations to a	ketch map):
Site consists of concrete slab measuring concrete slab is concrete pedestal measur	ca. 3m N-S by 5m E-W. Atop the ing roughly 40 cm by 30 cm by 20 cm
high. Title of monument reads: "Project	Rulison Nuclear Explosive
Emplacement Well (R-E)". Concrete pedest	al has been severely chipped on
north and east edges. Bronze title plaqu	e has been scratched and dented.
Two small metal plates (one remaining) ha	
side of pedestal. These plaques were not part of the original monument;	
they list the types of radioactivity and	hazards created by the project.
6. Is this a one-time or series of in	ncidents? Estimated time since
incident (for multiple incidents, check sore	than one category):
less than one month;one month to on 4-10 years;10-20 years;greater t	
7Amount of damage (volume of deposits or area of rock art).	
<u>2%</u> Estimate percent of structures, rodestroyed of those originally present	ck art or archaeological deposits
8. Attach closeup photo of each vandalism 3	ocation within site, key to map.
<ol> <li>Attach sketch map (show locations of var features, indicate photo locations).</li> </ol>	dalism in relation to site area and
Recorder(s) L. H. Bambrey	
Affiliation IT Corporation, Englewood, CO	
Colorado Historical Society, Office of Archa Broadway, Denver, CO 80203 (303/866-3395).	eology & Historic Preservation, 1300